

WEST

Freeform Search

Database:

Term:

Display: Documents in Display Format: Starting with Number

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Search History

Today's Date: 7/6/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	18 and 14 and 11	39	<u>L13</u>
USPT	18 and 14 and 110	740	<u>L12</u>
USPT	110 and 17	29	<u>L11</u>
USPT	infect\$5 or anti\$10	252616	<u>L10</u>
USPT	18 and 17	11	<u>L9</u>
USPT	salmonella or campylbacter or clostridium	10217	<u>L8</u>
USPT	11 and 13 and 14 and 15	42	<u>L7</u>
USPT	11 and 12 and 13 and 14 and 15	0	<u>L6</u>
USPT	soybean\$5 or rapeseed\$6 or canola\$5 or fishmeal\$5 or meatmeal\$5	31465	<u>L5</u>
USPT	animal feed\$5	7119	<u>L4</u>
USPT	wheat\$5	35290	<u>L3</u>
USPT	antibacteria\$5	18943	<u>L2</u>
USPT	\$5glucanase or xylanase	1277	<u>L1</u>

Trying 3106016892...Open

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Welcome to STN International! Enter x:x  
LOGINID:sssptal815mxw  
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* * * * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * * *

NEWS 1 Feb 2 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Dec 17 Expanded CAplus Coverage of US, Japanese, WIPO,
EPO, and German patents
NEWS 3 Feb 1 Addition of Machine-Translated Abstracts to CAplus
NEWS 4 Feb 28 Patent Information Now Searchable in CAOLD
SDI/UPDATE SEARCH FIELD
NEWS 5 May 1 Beilstein Abstracts on STN - FILE BABS
NEWS 6 May 1 RN CROSSOVER AND ANSWER SIZE LIMITS INCREASED
NEWS 7 May 1 AIDSLINE has been reloaded
NEWS 8 May 1 Searching Y2-K compliant Patent Numbers
NEWS 9 May 9 Sequence Similarity Batch Search in DGENE
NEWS 10 May 19 Weekly Statistics for New Entries now available
in INPADOC
NEWS 11 May 22 CITED REFERENCES NOW AVAILABLE IN CAPLUS AND CA FILE
NEWS 12 May 22 POSTPROCESSING OF SEARCH RESULTS MAY BE AFFECTED
BY ADDITION OF CITED REFERENCES TO CAPLUS, CA,
REGISTRY, CASREACT, MARPAT, and MARPATPREV
NEWS 13 Jun 2 KOREAN PATENTS NOW IN CAS DATABASES
NEWS 14 Jun 20 WIPO/PCT Patents Fulltext Database now on STN
NEWS 15 Jun 28 NEWS 15 Jun 28 CAS covers Web-distributed preprints

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FILE 'HOME' ENTERED AT 11:26:06 ON 06 JUL 2000

=> index bioscience, chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
FILE 'PAPERCHEM' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.15 | 0.15 |

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI,

BIOBUSINESS, BIOMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO,
CABA,
CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPUB, DDFB, DDFU,
DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 11:26:29 ON 06
JUL 2000

79 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s ?glucanase or xylanse

1* FILE ADISALERTS
0* FILE ADISINSIGHT
1118* FILE AGRICOLA
6 FILE AIDSLINE
39* FILE ANABSTR

5 FILES SEARCHED...

47* FILE AQUASCI
495* FILE BIOBUSINESS
39* FILE BIOMERCE
4283 FILE BIOSIS
962* FILE BIOTECHABS
962* FILE BIOTECHDS
1414 FILE BIOTECHNO
1455* FILE CABA
37 FILE CANCERLIT
5983 FILE CAPLUS
365* FILE CEABA

16 FILES SEARCHED...

0* FILE CEN
12 FILE CIN
56* FILE CONFSCI
38* FILE CROPB
165* FILE CROPUB
22* FILE DDFB
14* FILE DDFU
1096* FILE DGENE
22* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
25* FILE DRUGU
4* FILE EMBAL

30 FILES SEARCHED...

1449 FILE EMBASE
618* FILE ESBIOWEB
0* FILE FOMAD
61* FILE FOREGE

34 FILES SEARCHED...

240* FILE FROSTI
838* FILE FSTA
1129 FILE GENBANK
3* FILE HEALSAFE
164* FILE IFIPAT
387* FILE JICST-EPLUS
2* FILE KOSMET
1122* FILE LIFESCI
1547 FILE MEDLINE
2* FILE NIOSHTIC

44 FILES SEARCHED...

24* FILE NTIS
22* FILE OCEAN
24* FILE PROMT
3273 FILE SCISEARCH

253 FILE TOCONE
760 FILE TOXIT
940 FILE USPATFULL
555 FILE WPIDS
555 FILE WPINDEX
1* FILE ALUMINIUM
1* FILE APILIT
1* FILE APILIT2
123* FILE BABS
22 FILE CAOLD
6* FILE CBNB
0* FILE CERAB
139* FILE COMPENDEX
2* FILE INSPEC
1* FILE INSPHYS
2* FILE INVESTTEXT
0* FILE IPA
9* FILE KKF
0* FILE METADEX
17 FILE NAPRALERT
210* FILE PAPERCHEM2
3* FILE RAPRA
73 FILES SEARCHED...
3* FILE RUSSCI
1* FILE TULSA
0* FILE TULSA2
9* FILE VTB
3* FILE WSCA

65 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L1 QUE ?GLUCANASE OR XYLANSE

=> s antibacteria?

16236 FILE ADISALERTS
597 FILE ADISINSIGHT
2999 FILE AGRICOLA
190 FILE AIDSLINE
153 FILE ANABSTR
571 FILE AQUASCI
7597 FILE BIOBUSINESS
131 FILE BIOCOMMERCE
108315 FILE BIOSIS
952 FILE BIOTECHABS
952 FILE BIOTECHDS
3109 FILE BIOTECHNO
6956 FILE CABA
1436 FILE CANCERLIT
46007 FILE CAPLUS
449 FILE CEABA
91 FILE CEN
701 FILE CIN
580 FILE CONFSCI
37 FILE CROPB
299 FILE CROPU
1453 FILE DDFB
7842 FILE DDFU
14883 FILE DGENE
1453 FILE DRUGB
595 FILE DRUGLAUNCH
10 FILE DRUGMONOG2
196 FILE DRUGNL
9506 FILE DRUGU
29 FILES SEARCHED...
130 FILE EMBAL

21766 FILE EM
2288 FILE ESDIOBASE
1 FILE FOMAD
1114 FILE FROSTI
1108 FILE FSTA
297 FILE GENBANK
135 FILE HEALSAFE
6346 FILE IFIPAT
23389 FILE JICST-EPLUS
102 FILE KOSMET
12710 FILE LIFESCI
15810 FILE MEDLINE
194 FILE NIOSHTIC
335 FILE NTIS
279 FILE OCEAN
758 FILE PHAR
8 FILE PHIC
2755 FILE PHIN
5687 FILE PROMT
12805 FILE SCISEARCH
9231 FILE TOXLINE
11441 FILE TOXLIT
18680 FILE USPATFULL
22065 FILE WPIDS
22065 FILE WPINDEX
6 FILE ALUMINIUM
20 FILE APILIT
20 FILE APILIT2
2289 FILE BABS
2026 FILE CAOLD
1063 FILE CBNB

62 FILES SEARCHED...
5 FILE CERAB
323 FILE COMPENDEX
44 FILE INSPEC
16 FILE INSPHYS
4389 FILE INVESTEXT
3050 FILE IPA
59 FILE KKF
24 FILE METADEX
6710 FILE NAPRALERT
66 FILE PAPERCHEM2
230 FILE RAPRA
23 FILE RUSSCI
6 FILE TULSA
2 FILE TULSA2
412 FILE USAN
6 FILE VTB
214 FILE WSCA

78 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L2 QUE ANTIBACTERIA?

=> s animal feed?

3 FILE ADISALERTS
3019 FILE AGRICOLA
10 FILE AIDSLINE
394 FILE ANABSTR
306 FILE AQUASCI
3381 FILE BIOBUSINESS
334 FILE BIOCOMMERCE
7166 FILE BIOSIS
915 FILE BIOTECHABS
915 FILE BIOTECHDS

248 FILE BIOTECHNO
6437 FILE CABA
358 FILE CANCERLIT
4999 FILE CAPLUS
502 FILE CEABA
16 FILES SEARCHED...
95 FILE CEN
1074 FILE CIN
70 FILE CONFSCI
18 FILE CROPPB
76 FILE CROPU
67 FILE DDFB
28 FILE DDFU
2688 FILE DGENE
67 FILE DRUGB
32 FILE DRUGU
7 FILE EMBAL
768 FILE EMBASE
266 FILE ESBIOBASE
298 FILE FOMAD
3 FILE FOREGE
1853 FILE FROSTI
35 FILES SEARCHED...
1691 FILE FSTA
12 FILE GENBANK
87 FILE HEALSAFE
2253 FILE IFIPAT
117 FILE JICST-EPLUS
6 FILE KOSMET
518 FILE LIFESCI
19473 FILE MEDLINE
174 FILE NIOSHTIC
632 FILE NTIS
71 FILE OCEAN
25 FILE PHIC
2631 FILE PHIN
7525 FILE PROMT
1599 FILE SCISEARCH
18162 FILE TOXLINE
52 FILES SEARCHED...
950 FILE TOXLIT
6756 FILE USPATFULL
7872 FILE WPIDS
7872 FILE WPINDEX
56 FILES SEARCHED...
173 FILE APILIT
173 FILE APILIT2
12 FILE BABS
345 FILE CAOLD
2366 FILE CBNB
2 FILE CERAB
453 FILE COMPENDEX
67 FILE INSPEC
1 FILE INSPHYS
8263 FILE INVESTEXT
55 FILE IPA
9 FILE METADEX
9 FILE NAPRALERT
211 FILE PAPERCHEM2
48 FILE RAPRA
73 FILES SEARCHED...
5 FILE RUSSCI
2 FILE TULSA
56 FILE VTB
6 FILE WSCA

70 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L3 QUE ANIMAL FEED?

=> s wheat?

| | |
|--------|------------------|
| 45 | FILE ADISALERTS |
| 71177 | FILE AGRICOLA |
| 42 | FILE AIDSLINE |
| 1248 | FILE ANABSTR |
| 696 | FILE AQUASCI |
| 22009 | FILE BIOBUSINESS |
| 464 | FILE BIOCOMMERCE |
| 97293 | FILE BIOSIS |
| 3660 | FILE BIOTECHABS |
| 3660 | FILE BIOTECHDS |
| 7640 | FILE BIOTECHNO |
| 139182 | FILE CABA |
| 1940 | FILE CANCERLIT |
| 77051 | FILE CAPLUS |
| 1160 | FILE CEABA |
| - 112 | FILE CEN |
| 1099 | FILE CIN |
| 2900 | FILE CONFSCI |
| 11382 | FILE CROPB |
| 17709 | FILE CROPU |
| 488 | FILE DDFB |
| 265 | FILE DDFU |
| 3879 | FILE DGENE |
| 488 | FILE DRUGB |
| 109 | FILE DRUGLAUNCH |
| 76 | FILE DRUGMONOG2 |

27 FILES SEARCHED...

| | |
|-------|------------------|
| 7 | FILE DRUGNL |
| 470 | FILE DRUGU |
| 102 | FILE EMBAL |
| 13337 | FILE EMBASE |
| 10232 | FILE ESBIOBASE |
| 1862 | FILE FOMAD |
| 531 | FILE FOREGE |
| 11318 | FILE FROSTI |
| 23733 | FILE FSTA |
| 4067 | FILE GENBANK |
| 346 | FILE HEALSAFE |
| 4301 | FILE IFIPAT |
| 6665 | FILE JICST-EPLUS |
| 94 | FILE KOSMET |
| 14576 | FILE LIFESCI |
| 17594 | FILE MEDLINE |
| 405 | FILE NIOSHTIC |
| 4033 | FILE NTIS |
| 127 | FILE OCEAN |
| 3 | FILE PHAR |
| 41 | FILE PHIC |
| 5648 | FILE PHIN |
| 35734 | FILE PROMT |
| 57680 | FILE SCISEARCH |
| 11499 | FILE TOXLINE |
| 17340 | FILE TOXLIT |
| 29356 | FILE USPATFULL |
| 15541 | FILE WPIDS |

55 FILES SEARCHED...

| | |
|-------|----------------|
| 15541 | FILE WPINDEX |
| 22 | FILE ALUMINIUM |

57 FILES SEARCHED...

| | |
|-----|-------------|
| 336 | FILE APILIT |
|-----|-------------|

336 FILE A~~IT~~IT2
547 FILE BABS
7010 FILE CAOLD
1808 FILE CBNB
7 FILE CERAB
3624 FILE COMPENDEX
1582 FILE INSPEC
65 FILES SEARCHED...
177 FILE INSPHYS
41113 FILE INVESTTEXT
89 FILE IPA
81 FILE KKF
60 FILE METADEX
252 FILE NAPRALERT
1553 FILE PAPERCHEM2
151 FILE RAPRA
193 FILE RUSSCI
93 FILE TULSA
48 FILE TULSA2
2 FILE USAN
53 FILE VTB
51 FILE WSCA

78 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L4 QUE WHEAT?

=> s 11 and 12 and 13 and 14

0* FILE ADISALERTS
0* FILE ADISINSIGHT
0* FILE AGRICOLA
0* FILE ANABSTR
0* FILE AQUASCI
0* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
0* FILE BIOTECHABS
0* FILE BIOTECHDS
0* FILE CABA
0* FILE CEABA
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB
0* FILE CROPU
0* FILE DDFB
22 FILES SEARCHED...
0* FILE DDFU
0* FILE DGENE
0* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIOTBASE
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
0* FILE FSTA
0* FILE HEALSAFE
0* FILE IFIPAT
0* FILE JICST-EPLUS
0* FILE KOSMET
0* FILE LIFESCI
0* FILE NIOSHTIC
0* FILE NTIS

45 FILES SEARCHED.
0* FILE OCEAN
0* FILE PROMT
56 FILES SEARCHED...
0* FILE ALUMINIUM
0* FILE APILIT
0* FILE APILIT2
0* FILE BABS
0* FILE CBNB
0* FILE CERAB
0* FILE COMPENDEX
0* FILE INSPEC
0* FILE INSPHYS
0* FILE INVESTEXT
0* FILE IPA
0* FILE KKF
0* FILE METADEX
0* FILE PAPERCHEM2
0* FILE RAPRA
0* FILE RUSSCI
0* FILE TULSA
0* FILE TULSA2
0* FILE VTB
78 FILES SEARCHED...
0* FILE WSCA

0 FILES HAVE ONE OR MORE ANSWERS,

79 FILES SEARCHED IN STNINDEX

L5 QUE L1 AND L2 AND L3 AND L4

=> s 11 and 13 and 14

0* FILE ADISALERTS
0* FILE ADISINSIGHT
0* FILE AGRICOLA
0* FILE ANABSTR
0* FILE AQUASCI
1* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
6 FILE BIOSIS
3* FILE BIOTECHABS
3* FILE BIOTECHDS
0* FILE CABA
9 FILE CAPLUS
0* FILE CEABA
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB
20 FILES SEARCHED...
0* FILE CROPU
0* FILE DDFB
0* FILE DDFU
6* FILE DGENE
0* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIOTBASE
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
1* FILE FSTA
0* FILE HEALSAFE
5* FILE IFIPAT

0* FILE JST-EPLUS
0* FILE KCOMET
0* FILE LIFESCI
4 FILE MEDLINE
0* FILE NIOSHTIC
1* FILE NTIS
45 FILES SEARCHED...
0* FILE OCEAN
0* FILE PROMT
2 FILE SCISEARCH
2 FILE TOXLINE
72 FILE USPATFULL
2 FILE WPIDS
2 FILE WPINDEX
56 FILES SEARCHED...
0* FILE ALUMINIUM
0* FILE APILIT
0* FILE APILIT2
0* FILE BABS
0* FILE CBNB
0* FILE CERAB
0* FILE COMPENDEX
0* FILE INSPEC
0* FILE INSPHYS
0* FILE INVESTEXT
0* FILE IPA
0* FILE KKFI
0* FILE METADEX
0* FILE PAPERCHEM2
0* FILE RAPRA
0* FILE RUSSCI
0* FILE TULSA
0* FILE TULSA2
76 FILES SEARCHED...
0* FILE VTB
0* FILE WSCA

15 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L6 QUE L1 AND L3 AND L4

=> s soybean? or rapeseed? or canola? or fishmeal? or meatmeal?

83 FILE ADISALERTS
7 FILE ADISINSIGHT
40963 FILE AGRICOLA
21 FILE AIDSLINE
497 FILE ANABSTR
1271 FILE AQUASCI
16426 FILE BIOBUSINESS
479 FILE BIOCOMMERCE
58797 FILE BIOSIS
4963 FILE BIOTECHABS
4963 FILE BIOTECHDS
4697 FILE BIOTECHNO
37116 FILE CABA
1102 FILE CANCERLIT
75309 FILE CAPLUS
611 FILE CEABA
203 FILE CEN
3161 FILE CIN
2440 FILE CONFSCI
4686 FILE CROPB
11175 FILE CROPU
413 FILE DDFB
769 FILE DDFU

5,817,500 5,612,055

4408 FILE D~~E~~
24 FILES SEARCHED...
413 FILE DRUGB
20 FILE DRUGLAUNCH
3 FILE DRUGNL
1070 FILE DRUGU
85 FILE EMBAL
10656 FILE EMBASE
5738 FILE ESBIOBASE
747 FILE FOMAD
82 FILE FOREGE
5871 FILE FROSTI
17234 FILE FSTA
93532 FILE GENBANK
189 FILE HEALSAFE
4776 FILE IFIPAT
8946 FILE JICST-EPLUS
65 FILE KOSMET
7818 FILE LIFESCI
14442 FILE MEDLINE
185 FILE NIOSHTIC
2468 FILE NTIS
319 FILE OCEAN
10 FILE PHAR
34 FILE PHIC
3026 FILE PHIN
49 FILES SEARCHED...
17852 FILE PROMT
36289 FILE SCISEARCH
8753 FILE TOXLINE
12537 FILE TOXLIT
31353 FILE USPATFULL
12561 FILE WPIDS
12561 FILE WPINDEX
8 FILE ALUMINIUM
782 FILE APILIT
782 FILE APILIT2
714 FILE BABS
3668 FILE CAOLD
1526 FILE CBNB
2775 FILE COMPENDEX
344 FILE INSPEC
81 FILE INSPHYS
15704 FILE INVESTEXT
482 FILE IPA
68 FILE KKF
14 FILE METADEX
375 FILE NAPRALERT
281 FILE PAPERCHEM2
255 FILE RAPRA
14 FILE RUSSCI
7 FILE TULSA
1 FILE TULSA2
4 FILE USAN
77 FILES SEARCHED...
22 FILE VTB
178 FILE WSCA

77 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L7 QUE SOYBEAN? OR RAPESEED? OR CANOLA? OR FISHMEAL? OR MEATMEAL?

=> s 16 and 17

0* FILE ADISALERTS
0* FILE ADISINSIGHT

0* FILE A~~COLA~~
0* FILE ANESTR
0* FILE AQUASCI
0* FILE BIOBUSINESS
0* FILE BIOCOMMERCE
0* FILE BIOTECHABS
0* FILE BIOTECHDS
0* FILE CABA
4 FILE CAPLUS
15 FILES SEARCHED...
0* FILE CEABA
0* FILE CEN
0* FILE CONFSCI
0* FILE CROPB
0* FILE CROPU
0* FILE DDFB
0* FILE DDFU
0* FILE DGENE
0* FILE DRUGB
0* FILE DRUGLAUNCH
0* FILE DRUGMONOG2
0* FILE DRUGNL
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIOBASE
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
0* FILE FSTA
36 FILES SEARCHED...
0* FILE HEALSAFE
1* FILE IFIPAT
0* FILE JICST-EPLUS
0* FILE KOSMET
0* FILE LIFESCI
0* FILE NIOSHTIC
1* FILE NTIS
0* FILE OCEAN
0* FILE PROMT
26 FILE USPATFULL
54 FILES SEARCHED...
1 FILE WPIDS
1 FILE WPINDEX
56 FILES SEARCHED...
0* FILE ALUMINIUM
0* FILE APILIT
0* FILE APILIT2
0* FILE BABS
0* FILE CBNB
0* FILE CERAB
0* FILE COMPENDEX
0* FILE INSPEC
0* FILE INSPHYS
0* FILE INVESTEXT
0* FILE IPA
0* FILE KKF
0* FILE METADEX
0* FILE PAPERCHEM2
0* FILE RAPRA
0* FILE RUSSCI
0* FILE TULSA
75 FILES SEARCHED...
0* FILE TULSA2
0* FILE VTB
0* FILE WSCA

6 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L8 QUE L6 AND L7

=> d rank

| | | |
|----|----|-----------|
| F1 | 26 | USPATFULL |
| F2 | 4 | CAPLUS |
| F3 | 1 | WPIDS |
| F4 | 1 | WPINDEX |
| F5 | 1* | IFIPAT |
| F6 | 1* | NTIS |

=> file f1-f6

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 12.15 | 12.30 |

FILE 'USPATFULL' ENTERED AT 11:42:40 ON 06 JUL 2000
CA INDEXING COPYRIGHT (C) 2000 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 11:42:40 ON 06 JUL 2000
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'IFIPAT' ENTERED AT 11:42:40 ON 06 JUL 2000
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FILE 'NTIS' ENTERED AT 11:42:40 ON 06 JUL 2000
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=> s 18

3 FILES SEARCHED...
LEFT TRUNCATION IGNORED FOR '?GLUCANASE' FOR FILE 'IFIPAT'
LEFT TRUNCATION IGNORED FOR '?GLUCANASE' FOR FILE 'NTIS'
L9 33 L8
Left truncation is not valid in the specified search field in the
specified file. The term has been searched without left truncation.
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you
used a truncation symbol after a punctuation mark, the system may
interpret the truncation symbol as being at the beginning of a term.
Implied proximity is used in search fields indexed as single words,
for example, the Basic Index.

=> dup rem 19

PROCESSING COMPLETED FOR L9
L10 32 DUP REM L9 (1 DUPLICATE REMOVED)

=> d 1-32 ab,bib

L10 ANSWER 1 OF 32 USPATFULL

AB Plants are provided with improved resistance against pathogenic fungi. They are genetically transformed with one or more polynucleotides which essentially comprise one or more genes encoding plant and .beta.-1,3-glucanases. Preferred are the intracellular forms of the said

hydrolytic enzymes, especially preferred are those forms which are targeted to the apoplastic space of the plant by virtue of the modification of the genes encoding the said enzymes. Particularly preferred are plants exhibiting a relative overexpression of at least one gene encoding a .beta.-1,3-glucanase.

AN 2000:64717 USPATFULL

TI Process for obtaining fungal resistant plants with recombinant polynucleotides encoding .beta.-1,3-glucanase modified for apoplast targeting

IN Cornelissen, Bernardus Johannes Clemens, Warmond, Netherlands
Melchers, Leo Sjoerd, Leiden, Netherlands

PA Zeneca Mogen B.V., Netherlands (non-U.S. corporation)

PI US 6066491 20000523

AI US 1994-229050 19940418 (8)

RLI Continuation of Ser. No. US 1991-647831, filed on 29 Jan 1991, now abandoned

PRAI NL 1990-222 19900130

DT Utility

EXNAM Primary Examiner: Nelson, Amy J.

LREP Ladas & Parry

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 14 Drawing Figure(s); 11 Drawing Page(s)

LN.CNT 2300

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 32 USPATFULL

AB This invention describes the germination technology for cereal and oil seeds for the production of enzymes and also describes the production technology of various high activity enzyme products such as phytase

from the germinated seeds. The invention provides the use of germinated seeds

for after crushing (or pulverizing) as economically viable raw materials

mixed feeds and also provides the use of the enzyme products as filler materials for various pharmaceuticals for livestock. The production of enzyme products from seeds are achieved through four steps including selection of seeds, germination, culturing and drying, crushing and packaging.

AN 2000:61248 USPATFULL

TI Production of enzyme products and raw feed materials using grain seeds
IN Bae, Hee Dong, 144-5, Ji-dong, Suwon-City, Kyungki-do, Korea, Republic of

Cheng, Kuo-Joan, 2015-6 Avenue South, Lethbridge, Alberta, Canada T1J 1C2

PI US 6063431 20000516

AI US 1997-889029 19970707 (8)

PRAI KR 1997-1499 19970120

DT Utility

EXNAM Primary Examiner: Sayala, Chhaya D.

LREP Darby & Darby

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 400

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 32 USPATFULL

AB The present invention relates to isolated polypeptides having phytase

activity, the corresponding cloned DNA sequence, a process for preparing such polypeptides, and the use thereof for a number of industrial applications. In particular, the invention relates to phytases derived from the phylum Basidiomycota, phytases of certain consensus sequences and fungal 6-phytases.

AN 2000:34189 USPATFULL
TI Phytase polypeptides
IN Lassen, Soren Flensted, Copenhagen, Denmark
Bech, Lisbeth, Hillerod, Denmark
Ohmann, Anders, Bronshoj, Denmark
Breinholt, Jens, Bagsvaerd, Denmark
Fuglsang, Claus Crone, Niva, Denmark
Ostergaard, Peter Rahbek, Virum, Denmark

PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 6039942 20000321
AI US 1997-993359 19971218 (8)
PRAI DK 1996-1480 19961220
DK 1996-1481 19961220
DK 1997-301 19970318
DK 1997-529 19970507
DK 1997-1388 19971201
US 1997-46082 19970509 (60)
US 1997-67304 19971204 (60)

DT Utility
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Saidha, Tekchand
LREP Zelson, Esq., Steve T.; Green, Esq., Reza
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 38 Drawing Figure(s); 38 Drawing Page(s)
LN.CNT 4185

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 32 USPATFULL

AB The present invention relates to a method for improving the solubility of vegetable proteins. More specifically, the invention relates to methods for the solubilization of proteins in vegetable protein sources,

which methods comprise treating the vegetable protein source with an efficient amount of one or more phytase enzymes, and treating the vegetable protein source with an efficient amount of one or more proteolytic enzymes. In another aspect, the invention provides animal feed additives comprising a phytase and one or more proteolytic enzymes.

AN 1999:150703 USPATFULL
TI Method for improving the solubility of vegetable proteins
IN Nielsen, Per Munk, Bagsv.ae butted.rd, Denmark
Knap, Inge Helmer, Bagsv.ae butted.rd, Denmark
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 5989600 19991123
WO 9528850 19951102
AI US 1996-716450 19960927 (8)
WO 1995-DK166 19950420
19960927 PCT 371 date
19960927 PCT 102(e) date

PRAI DK 1994-470 19940422

DT Utility

EXNAM Primary Examiner: Eissenschenk, Chris; Assistant Examiner: Zeman, Mary K
LREP Zelson, Esq., Steve T.; Lambiris, Esq., Elias
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 631

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 32 USPATFULL

AB A method of treating adverse behavior in animals, manifested in

secondary effects such as, in horses, excitability, difficult handling, coprophagy, wool chewing and grasping, or wind sucking, by controlling the formation and accumulation of acid in the hind gut (large intestine)

of the gastrointestinal tract that results from the fermentation of excess carbohydrates in the hind gut. This is accomplished by ingesting certain antibiotics with or without combination thereof with certain enzymes. Of specific merit in this invention is the use of virginiamycin

to control the passage of carbohydrates into the gastrointestinal tract and the fermentation of these carbohydrates therein. This controls, the accumulation of acid in the digestive tract.

AN 1999:146590 USPATFULL

TI Prevention of adverse behavior, diarrhea, skin disorders and infections of the hind gut associated with acidic conditions in humans and animals by the application of antibiotics

IN Rowe, James Baber, 411 Rockvale Road, Armidale, New South Wales 2350, Australia

PI US 5985891 19991116

WO 9620709 19960711

AI US 1997-860562 19970829 (8)

WO 1995-AU884 19951229

19970829 PCT 371 date

19970829 PCT 102(e) date

PRAI AU 1994-338 19941229

DT Utility

EXNAM Primary Examiner: Cook, Rebecca

LREP Lowe Hauptman Gopstein Gilman & Berner

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 6 Drawing Figure(s); 6 Drawing Page(s)

LN.CNT 1301

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 32 USPATFULL

AB This invention concerns methods for synthesis and accumulation of fructose polymers in seed, tubers or leaves of transgenic plants by selective expression of a bacterial fructosyltransferase gene.

Selective

expression includes coordination of timing, tissue specific expression and especially subcellular location. Successful transformants utilize sucrose to synthesize and accumulate fructan in the vacuole of the cell,

in established crops, without loss of co-products or concern for yield loss due to degradation during maturation, harvest or storage of the plant. Enhanced fructan production will benefit the fructose sweetener industry and add value to grain used for feed.

AN 1999:63448 USPATFULL

TI Accumulation of fructans in plants by targeted expression of bacterial levansucrase

IN Caimi, Perry Gerard, Landenberg, PA, United States

Hershey, Howard Paul, West Chester, PA, United States

Kerr, Phillip S., Urbandale, IA, United States

PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States
(U.S. corporation)

PI US 5908975 19990601

WO 9513389 19950518

AI US 1996-640732 19960506 (8)

WO 1994-US12778 19941107

19960506 PCT 371 date

19960506 PCT 102(e) date

RLI Continuation-in-part of Ser. No. US 1993-149689, filed on 9 Nov 1993,
now abandoned

DT Utility

EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Nelson, Amy J.

CLMN Number of Claims 11

ECL Exemplary Claim 1

DRWN No Drawings

LN.CNT 3534

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 32 USPATFULL

AB A purified xylanase produced by Acidothermus cellulolyticus is disclosed

having a pH optimum of between about 3.6-4.2 and a molecular weight of between about 50-55 kD as determined by gel filtration. The disclosed xylanase is useful in the bleaching of pulp for the production of paper and in treating feed compositions.

AN 1999:56256 USPATFULL

TI Xylanase from acidothermus cellulolyticus

IN Clarkson, Kathleen A., San Francisco, CA, United States

Morgan, Andrew J., Marlborough, United Kingdom

Wang, Zhi C., San Francisco, CA, United States

PA Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

PI US 5902581 19990511

AI US 1995-567382 19951204 (8)

DT Utility

EXNAM Primary Examiner: Weber, Jon P.; Assistant Examiner: Kerr, Janet M.

LREP Anderson, Kirsten A. Genencor International, Inc.

CLMN Number of Claims: 3

ECL Exemplary Claim: 1

DRWN 4 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 659

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 32 USPATFULL

AB The invention provides a purified phytate enzyme derived from Escherichia coli B. The enzyme has a molecular weight of about 47.1 kilodaltons and has phytase activity (SEQ ID NO:2). The enzyme can be produced from native or recombinant host cells and can be used to aid in

the digestion of phytate where desired. In particular, the phytase of the present invention can be used in animal feed.

AN 1999:27459 USPATFULL

TI Phytase

IN Kretz, Keith, San Marcos, CA, United States

PA Diversa Corporation, San Diego, CA, United States (U.S. corporation)

PI US 5876997 19990302

AI US 1997-910798 19970813 (8)

DT Utility

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Tung, Peter P.

LREP Fish & Richardson P.C.

CLMN Number of Claims: 9

ECL Exemplary Claim: 2

DRWN 4 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 1172

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 32 USPATFULL

AB The present invention relates to a process for reducing the viscosity of

a plant material, which process comprises treating the plant material with a xylanase having i) a WSPS per mg protein added which is higher than 0,06, and/or ii) a WSPU per mg protein added which is higher than 15, and/or iii) a specific activity of more than 0,053 FVRU/mg protein. Further, the invention relates to use of a xylanase preparation for separating a plant material, such as wheat, into separate useful components as well as processes for such viscosity reduction or separation.

AN 1999:24495 USPATFULL

TI Processing plant material with xylanase
IN Jakobsen, Tina Ejersg.ang.ard, Copenhagen, Denmark
Heldt-Hansen, Hans Peter, Virum, Denmark
Kofod, Lene Venke, Uggerl.o slashed.se, Denmark
Bagger, Christian Lorentz, Frederiksberg, Denmark
Mullertz, Anette, Charlottenlund, Denmark
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 5874274 19990223
WO 9523514 19950908
AI US 1996-700546 19960923 (8)
WO 1995-DK82 19950224
19960923 PCT 371 date
19960923 PCT 102(e) date
PRAI DK 1994-247 19940502
DT Utility
EXNAM Primary Examiner: Prats, Francisco
LREP Zelson, Esq., Steve T.; Gregg, Esq., Valeta
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 963
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 32 USPATFULL

AB The present invention relates to a composition capable of reducing or eliminating offensive odors emanating from sites including, animal holding areas, animal waste areas, feed lots, water holding areas, landfills, trash transfer centers and leachate reservoirs. The composition comprises an acid component, or salt thereof, an iron component and a nitrogen source. The invention also relates to a method of odor reduction or elimination based on the above-described composition. Furthermore, the composition utilized in the disclosed methods includes a polysaccharide hydrolase component, and at least one molybdenum, copper and/or gum component.

AN 1999:15473 USPATFULL
TI Methods of odor treatment
IN Jones, Craig, Juno Beach, FL, United States
Bitz, D. Michael, Miami, FL, United States
PA E.K.M.A., Inc., Miami, FL, United States (U.S. corporation)
PI US 5866112 19990202
AI US 1995-476374 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-376553, filed on 20 Jan 1995
DT Utility
EXNAM Primary Examiner: Naff, David M.; Assistant Examiner: Ware, Deborah K.
LREP Nixon & Vanderhye P.C.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 413
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB The present invention relates to novel microorganism, *Penicillium funiculosum*, to new enzymes mixt. obtained from it, and nucleic sequences thereto. Xylanase, .beta.-glucanase, feruloyl esterase and other enzymic activities are purified from *P. funiculosum* and characterized, and nucleic acid sequences encoding xylanase C, xylanase BI, feruloyl esterase A, and feruloyl esterase B are provided. The enzyme mixt. can be provided in liq. and powder compns. for use in **animal feed** for the redn. of phosphorus and ammonia excretion, as well as for improved digestibility of cereals and amino acids.

AN 1999:723223 CAPLUS
DN 131:348532
TI Enzyme mixture from *Penicillium funiculosum*

IN Sabatier, Alain; [REDACTED], Neville Marshall; Haigh, Nicholas Paterson
PA Rhone-Poulenc Animal Nutrition S.A., Fr.; Rhodia Chemie
SO PCT Int. Appl., 68 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 9957325 | A2 | 19991111 | WO 1999-IB856 | 19990506 |
| | W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU,
ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX,
NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU,
ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | EP 976838 | A1 | 20000202 | EP 1998-401101 | 19980506 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| | AU 9935306 | A1 | 19991123 | AU 1999-35306 | 19990506 |
| | EP 1007743 | A2 | 20000614 | EP 1999-917026 | 19990506 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| PRAI | EP 1998-401101 | | 19980506 | | |
| | WO 1999-IB856 | | 19990506 | | |

L10 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB Provided is the use of a xylanase or a cellulase for the manuf. of an agent for the treatment and/or prophylaxis of bacterial infection in an animal caused by Salmonella, Campylobacter or Clostridium perfringens.

It

is preferred that xylanase is used in combination with wheat to form an animal feed. Such a diet is particularly effective in controlling Campylobacter and Salmonella in chickens. The use provided by the present invention affords an alternative to antibiotics when controlling bacterial infection in animals. This leads to considerable health, environmental and economic benefits.

AN 1999:81590 CAPLUS

DN 130:152885

TI Use of an enzyme for the manufacture of an agent for controlling bacterial

infection

IN Bedford, Michael R.; Fernandez, Fresie

PA Finnfeeds International Ltd., UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 9903497 | A1 | 19990128 | WO 1998-EP4440 | 19980716 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | GB 2327345 | A1 | 19990127 | GB 1997-15214 | 19970718 |
| | GB 2327345 | B2 | 19990623 | | |
| | AU 9888623 | A1 | 19990210 | AU 1998-88623 | 19980716 |
| | EP 999851 | A1 | 20000517 | EP 1998-940239 | 19980716 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, | | | | |

IE, SI, I, LV, FI, RO
PRAI GB 1997-15214 19970718
WO 1998-EP4440 19980716

RE.CNT 6

RE

- (1) Biofeed Thailand Co Ltd; WO 9729645 A 1997
 - (2) Kohjin Co Ltd; JP 09084529 A 1997
 - (3) Kuznetsova, T; Fermentn Spirt Prom-ST 1985, V6, P38
 - (4) Kuznetsova, T; Lysis of microorganism by enzyme preparations and their components 1986, 9, P329 CAPLUS
 - (5) Mann Stephen Philip; WO 9313786 A 1993
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 32 USPATFULL

AB Xylanases having high specific activities from *Orpinomyces* sp. strain PC-2 are provided as well as methods for their purification. DNA sequences encoding these proteins are also provided.
AN 1998:128125 USPATFULL
TI *Orpinomyces* xylanase proteins and coding sequences
IN Li, Xin-Liang, Athens, GA, United States
Ljungdahl, Lars G., Athens, GA, United States
Chen, Huizhong, Athens, GA, United States
PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)
PI US 5824533 19981020
AI US 1995-445090 19950519 (8)
DT Utility
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Mytelka, Daniel S.
LREP Greenlee, Winner and Sullivan, P.C.
CLMN Number of Claims: 32
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1418
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 32 USPATFULL

AB The present invention relates to **animal feed** additives, which additives comprise a monocomponent xylanase derived from a strain of *Byssochlamus*, *Chaetomium*, *Humicola*, *Malbranchea*, *Mucor*, *Myceliophthora*, *Paecilomyces*, *Talaromyces*, *Thermoascus*, or *Thielavia*.
In other aspects, the invention relates to monocomponent xylanase preparations, DNA constructs, recombinant expression vectors, host cells, and methods of producing monocomponent xylanase preparations.
AN 1998:122255 USPATFULL
TI **Animal feed** additives
IN Hansen, Peter Kamp, Bagsvaerd, Denmark
Wagner, Peter, Bagsvaerd, Denmark
Mullertz, Anette, Bagsvaerd, Denmark
Knap, Inge Helmer, Bagsvaerd, Denmark
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)
PI US 5817500 19981006
AI US 1997-886765 19970701 (8)
PRAI DK 1995-94 19950126
DT Utility
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Hobbs, Lisa J.
LREP Zelson, Esq., Steve T.; Gregg, Esq., Valeta A.
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1610
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 32 USPATFULL

AB Fibrolytic enzyme supplements for increasing the digestibility of legume forages and grain feeds for ruminants, a method of treating legume forages and grain feeds with fibrolytic enzymes, and feed compositions consisting of feed materials treated with a mixture of fibrolytic enzymes are provided. The enzyme supplements do not pre-digest the feed material but assist in the colonization of feed particles in the rumen by ruminal microbes. The fibrolytic enzyme supplements consist of mixtures of cellulase and xylanase in certain preferred ratios and levels which are dependent on the feed material to be treated. The cellulase and xylanase are dissolved in a buffer solution and sprayed onto dry legume forages or grain feeds. The feed material is then incubated for at least three hours to allow the enzymes to be absorbed into and adhere to the feed material. The resulting feed compositions remain stable for at least one year against predigestion. When cellulase

and xylanase are applied to legume forages and grain feeds in certain ratios, levels and in accordance with the methods of the present invention, synergistic effects between the enzymes occur, providing large improvements in digestibility of feed materials at low enzyme levels.

AN 1998:19455 USPATFULL

TI Enzyme additives for ruminant feeds

IN Beauchemin, Karen A., Lethbridge, Canada

Rode, Lyle, Lethbridge, Canada

Sewalt, Vincent J., Ardmore, OK, United States

PA Her Majesty the Queen in right of Canada, as represented by the Department of Agriculture and Agri-Food Canada, Lacombe, Canada (non-U.S. government)

PI US 5720971 19980224

AI US 1995-497913 19950705 (8)

DT Utility

EXNAM Primary Examiner: Levy, Neil S.

LREP Greenlee, Winner and Sullivan, P.C.

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN 6 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 1518

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 32 USPATFULL

AB A method of catalyzing in vitro reactions using seeds containing enhanced amounts of enzymes is disclosed. The method involves adding transgenic, non-wild type seeds, preferably in a ground form, to a reaction mixture and allowing the enzymes in the seeds to increase the rate of reaction. By directly adding the seeds to the reaction mixture the method provides a solution to the expensive and problematic process of extracting and purifying the enzyme. Methods of treatment are also provided whereby a subject lacking a sufficient supply of an enzyme is administered the enzyme in the form of seeds containing enhanced amounts

of the enzyme.

AN 1998:12016 USPATFULL

TI Production of enzymes in seeds and their use

IN Van Ooijen, Albert J. J., Voorburg, Netherlands

Rietveld, Krijn, Vlaardingen, Netherlands

Hoekema, Andreas, Oegstgeest, Netherlands

Pen, Jan, Leiden, Netherlands

Sijmons, Peter Christian, Amsterdam, Netherlands

Verwoerd, Teunis Cornelis, Leiden, Netherlands

Quax, Wilhemus Johannes, Voorschoten, Netherlands

PA Mogen International, Netherlands (non-U.S. corporation)

PI US 5714474 19980203

AI US 1996-626554 19960402 (8)

RLI Division of Ser. No. US 1993-146422, filed on 2 Nov 1993, now patented, Pat. No. US 5543576 which is a continuation-in-part of Ser. No. US

1991-756994, filed on 11 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-498561, filed on 23 Mar 1990, now abandoned

PRAI EP 1991-200688 19910325
DT Utility
EXNAM Primary Examiner: Rories, Charles C. P.
LREP Morrison & Foerster LLP
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 24 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 1822
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 32 USPATFULL

AB The present invention provides plants with a modified taste, solids content and/or texture. The invention also provides methods of obtaining such plants via transformation with DNA constructs containing genes encoding enzymes capable of degrading plant polysaccharides and optionally additional genes encoding enzymes which are capable of further modifying the degradation products resulting from the first degradation step.

AN 1998:1662 USPATFULL
TI Transgenic plants having a modified carbohydrate content
IN Van Ooyen, Albert Johannes Joseph, Voorburg, Netherlands
Rietveld, Krijn, Vlaardingen, Netherlands
Quax, Wilhelmus Johannes, Voorschoten, Netherlands
Van Den Elzen, Petrus Josephus Maria, Voorhout, Netherlands
Pen, Jan, Leiden, Netherlands
Hoekema, Andreas, Oegstgeest, Netherlands
Sijmons, Peter Christiaan, Amsterdam, Netherlands
PA MOGEN International, N.V., Netherlands (non-U.S. corporation)
PI US 5705375 19980106
AI US 1994-253575 19940603 (8)
RLI Continuation of Ser. No. US 1992-849422, filed on 12 Jun 1992, now abandoned
PRAI EP 1990-202438 19900913
DT Utility
EXNAM Primary Examiner: Rories, Charles C. P.
LREP Morrison & Foerster LLP
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1235
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 32 USPATFULL

DUPLICATE 1

AB The present invention provides a method of use, and a composition, of a carbohydrase and/or a protease for the manufacture of an agent for the treatment and/or prophylaxis of coccidiosis. The agent can be in the form of a cereal-based **animal feed**. The carbohydrase may be a polysaccharidase such as a xylanase or a cellulase e.g., **.beta.-glucanase**. The agent may include conventional non-enzymic anticoccidial agents.

AN 97:35943 USPATFULL
TI Method and composition for treatment and/or prophylaxis of coccidiosis
IN Bedford, Michael R., Marlborough, United Kingdom
Morgan, Andrew J., Marlborough, United Kingdom
Taylor, Michael A., Addlestone, United Kingdom
Catchpole, Janet, Addlestone, United Kingdom
PA Finnfeeds International Limited, Wiltshire, Great Britain (non-U.S. corporation)
Minister of Agriculture, Fisheries and Food, London, Great Britain (non-U.S. government)
PI US 5624678 19970429
AI US 1995-435946 19950510 (8)

PRAI GB 1994-9336 19940510
DT Utility
EXNAM Primary Examiner: Phelan, D. Gabrielle
LREP Watson Cole Stevens Davis, P.L.L.C.
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 551
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 32 USPATFULL
AB Plants are provided with improved resistance against pathogenic fungi. They are genetically transformed with one or more polynucleotides which essentially comprise one or more genes encoding plant chitinases and .beta.-1,3-glucanases. Preferred are the intracellular forms of the said

hydrolytic enzymes, especially preferred are those forms which are targeted to the apoplastic space of the plant by virtue of the modification of the genes encoding the said enzymes. Particularly preferred are plants exhibiting a relative overexpression of at least one gene encoding a chitinase and one gene encoding a .beta.-1,3-glucanase.

AN 97:86812 USPATFULL
TI Fungal resistant plants, process for obtaining fungal resistant plants and recombinant polynucleotides for use therein
IN Cornelissen, Bernardus J. C., Warmond, Netherlands
Melchers, Leo Sjoerd, Leiden, Netherlands
Meulenhoff, Elisabeth J. S., Amsterdam, Netherlands
van Roekel, Jeroen S. C., Amsterdam, Netherlands
Sela-Buurlage, Marianne Beatrix, Amersfoort, Netherlands
Vloemans, Alexandra Aleida, Leiden, Netherlands
Woloshuk, Charles Peter, Lafayette, IN, United States
Bol, John Ferdinand, Oegstgeest, Netherlands
Linthorst, Hubertus J. M., Leiden, Netherlands
PA MOGEN International, n.v., Leiden, Netherlands (non-U.S. corporation)
Rijksuniversiteit te Leiden, Leiden, Netherlands (non-U.S. corporation)
PI US 5670706 19970923
AI US 1993-47413 19930419 (8)
RLI Division of Ser. No. US 1991-647831, filed on 29 Jan 1991, now abandoned
DT Utility
EXNAM Primary Examiner: Chereskin, Che S.
LREP Morrison & Foerster LLP
CLMN Number of Claims: 30
ECL Exemplary Claim: 1
DRWN 16 Drawing Figure(s); 12 Drawing Page(s)
LN.CNT 2336
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 32 USPATFULL
AB The invention comprises two grain conditioners. The first grain conditioner, which is suitable for use on all grains, comprises a pectinase, a protease, a beta-glucanase and an amylase. The second grain conditioner, which is designed for use on easier-to-digest grains, comprises a pectinase, a beta-glucanase, an amylase and a hemicellulase. The invention also comprises animal feeds which comprise a grain which has been conditioned with one of the grain conditioners of the invention designed to be effective on that grain and methods of increasing the weight gain and feed utilization efficiency of an animal comprising feeding the novel animal feeds of the invention to the animal. The invention further comprises a method of conditioning a grain which comprises providing the grain, contacting the grain with one of the grain conditioners of the invention designed to be effective on that grain and incubating the grain and grain conditioner together for at least about 30 minutes. Finally, there is also provided another method

of conditioning grain comprising providing the grain, scarifying the grain, contacting the grain with one of the grain conditioners of the invention designed to be effective on that grain and incubating the grain and grain conditioner for at least about 30 minutes.

AN 97:78175 USPATFULL
TI Enzymatic grain conditioner and methods of using it
IN Tobey, Jr., James F., Roanoke, VA, United States
McGee, J. Stanley, Longmont, CO, United States
Cobb, Charles W., Hereford, TX, United States
Cortner, William, Maysville, MO, United States
PA Loveland Industries, Inc., Greeley, CO, United States (U.S.
corporation)
George A. Jeffreys & Co., Salem, VA, United States (U.S. corporation)
Creative Research Laboratories, Inc., Wisner, NE, United States (U.S.
corporation)
PI US 5662901 19970902
AI US 1994-294087 19940822 (8)
RLI Division of Ser. No. US 1990-544022, filed on 26 Jun 1990 which is a
continuation of Ser. No. US 1989-407726, filed on 14 Sep 1989, now
abandoned which is a continuation of Ser. No. US 1987-76114, filed on
21 Jul 1987, now abandoned
DT Utility
EXNAM Primary Examiner: Lankford, Blaine
LREP Burton, Carol W. Holland & Hart LLP
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1219
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 21 OF 32 USPATFULL

AB An enzyme feed additive is provided comprising a xylanase, a protease, and optionally a .beta.-**glucanase**. The ratio of the units of xylanase activity per unit amount of the feed additive to the units of .beta.-**glucanase** activity per same unit amount of the feed additive is 1:0-0.25.

Preferably, the xylanase is the low pI xylanase and/or the high pI xylanase obtained from *Trichoderma longibrachiatum*.

Preferably, the protease is a mutant subtilisin comprising a substitution at the amino acid residue position equivalent to tyr+217
of

Bacillus amyloliquefaciens subtilisin with leucine.

AN 97:22502 USPATFULL
TI Enzyme feed additive and **animal feed**
IN Bedford, Michael R., Marlborough, United Kingdom
Morgan, Andrew J., Marlborough, United Kingdom
Clarkson, Kathleen, San Francisco, CA, United States
Schulze, Hagen K., Marlborough, United Kingdom
PA Genecor International, Inc., Rochester, NY, United States (U.S.
corporation)
Finnfeeds International Limited, United Kingdom (non-U.S. corporation)
PI US 5612055 19970318
AI US 1995-515610 19950816 (8)
PRAI GB 1994-16841 19940819
DT Utility
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Howard, Sharon
CLMN Number of Claims: 28
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 905
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to animal feed additives comprising galactanase enzymes. More specifically, the invention relates to animal feed additives comprising an arabinogalactan endo-1,4-.beta.-galactosidase and/or an arabinogalactan endo-1,3-.beta.-galactosidase.

AN 1997:414188 CAPLUS

DN 127:33317

TI Animal feed additives

IN Knap, Inge Helmer; Kofod, Lene Venke; Ohmann, Anders

PA Novo Nordisk A/s, Den.; Knap, Inge, Helmer; Kofod, Lene, Venke; Ohmann, Anders

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9716982 | A1 | 19970515 | WO 1996-DK443 | 19961022 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2234607 | AA | 19970515 | CA 1996-2234607 | 19961022 |
| | AU 9672797 | A1 | 19970529 | AU 1996-72797 | 19961022 |
| | AU 714602 | B2 | 20000106 | | |
| | EP 862371 | A1 | 19980909 | EP 1996-934447 | 19961022 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI | | | | |
| | CN 1201373 | A | 19981209 | CN 1996-198103 | 19961022 |
| | BR 9611347 | A | 19990309 | BR 1996-11347 | 19961022 |
| | JP 11514528 | T2 | 19991214 | JP 1996-517759 | 19961022 |
| PRAI | DK 1995-1233 | | 19951106 | | |
| | WO 1996-DK443 | | 19961022 | | |

L10 ANSWER 23 OF 32 USPATFULL

AB A method of catalyzing in vitro reactions using seeds containing enhanced amounts of enzymes is disclosed. The method involves adding transgenic, non-wild type seeds, preferably in a ground form, to a reaction mixture and allowing the enzymes in the seeds to increase the rate of reaction. By directly adding the seeds to the reaction mixture the method provides a solution to the expensive and problematic process of extracting and purifying the enzyme. Methods of treatment are also provided whereby a subject lacking a sufficient supply of an enzyme is administered the enzyme in the form of seeds containing enhanced amounts

of the enzyme.

AN 96:70613 USPATFULL

TI Production of enzymes in seeds and their use

IN van Ooijen, Albert J. J., Voorburg, Netherlands

Rietveld, Krijn, Vlaardingen, Netherlands

Hoekema, Andreas, Oegstgeest, Netherlands

Pen, Jan, Leiden, Netherlands

Sijmons, Peter C., Amsterdam, Netherlands

Verwoerd, Teunis C., Leiden, Netherlands

Quax, Wilhemus J., Voorschoten, Netherlands

PA Mogen International, Leiden, Netherlands (non-U.S. corporation)

Gist-Brocades, Delft, Netherlands (non-U.S. corporation)

PI US 5543576 19960806

AI US 1993-146422 19931102 (8)

RLI Continuation-in-part of Ser. No. US 1991-756994, filed on 11 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-498561, filed on 23 Mar 1990, now abandoned

PRAI EP 1991-200688 19910325
DT Utility
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Rories, Charles
LREP Morrison & Foerster LLP
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 16 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 1909
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2000 ACS
AB An enzyme feed additive is provided comprising a xylanase, a protease, and optionally a β -glucanase. The ratio of the units of xylanase activity per unit amt. of the feed additive to the units of β -glucanase activity per same unit amt. of the feed additive is 1:0-0.25. Preferably, the xylanase is the low pI xylanase and/or the high pI xylanase obtained from *Trichoderma longibrachiatum*. Preferably, the protease is a mutant subtilisin comprising a substitution at the amino acid residue position equiv. to tyr+217 of *Bacillus amyloliquefaciens* subtilisin with leucine.

AN 1996:328577 CAPLUS
DN 125:9473
TI An enzyme feed additive and animal feed including it
IN Bedford, Michael Richard; Morgan, Andrew John; Clarkson, Kathleen; Schulze, Hagen Klaus
PA Finnfeeds International Limited, UK; Genencor International Inc.
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|----------|----------|-----------------|----------|
| PI | WO 9605739 | A1 | 19960229 | WO 1995-EP3277 | 19950817 |
| | W: AU, CA, CN, FI, JP, NO, NZ | | | | |
| | US 5612055 | A | 19970318 | US 1995-515610 | 19950816 |
| | CA 2196760 | AA | 19960229 | CA 1995-2196760 | 19950817 |
| | AU 9533944 | A1 | 19960314 | AU 1995-33944 | 19950817 |
| | AU 692596 | B2 | 19980611 | | |
| | EP 704167 | A1 | 19960403 | EP 1995-112939 | 19950817 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, NL, PT, SE | | | | |
| | CN 1159145 | A | 19970910 | CN 1995-194648 | 19950817 |
| | JP 10504716 | T2 | 19980512 | JP 1995-507779 | 19950817 |
| | FI 9700676 | A | 19970218 | FI 1997-676 | 19970218 |
| | NO 9700745 | A | 19970218 | NO 1997-745 | 19970218 |
| PRAI | GB 1994-16841 | 19940819 | | | |
| | WO 1995-EP3277 | 19950817 | | | |

L10 ANSWER 25 OF 32 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AB GB 2287867 A UPAB: 19951109
Use of xylanase (I) for assisting livestock to digest protein and/or amino

acids in feed is new.

(I) is pref. included in the feed in an amt. of 0.00001-10 (esp. 0.001-0.1)g/kg. (although admin. in water or in other feeds is also possible). Partic. the feed contains 20 (pref. 30) wt.% cereal, i.e. rye, triticale, barley, oats, sorghum, rice, maize or (best) wheat. Feeds may include a protein supplement, partic. fishmeal, meat meal or vegetable protein (e.g. soya or rapeseed meals); and also other enzymes comprising beta-glucanase, protease, alpha-amylase and/or pectin. (I) is derived from a fungus, partic. *Trichoderma*, *Aspergillus*, *Humicola* or *Neocallimastix* or a bacterium, esp. from *T. longibrachiatum* (See WO9206209).

USE - The method is partic. used for broiler chicken feed, but also turkey, duck, goose, pig, sheep or cow feed.

ADVANTAGE - incorporation of (I) allows the . of expensive energy, protein and/or amino acid supplements in cereal-based feeds to be reduced without loss of nutritional value or the nutritional value of the feed to be increased. Partic. (I) increases the energy value of the cereal

component by 6 (pref. 10)% and the protein/amino acid value by 10 (pref. 15)%. It also improves digestion of fat and oil supplements.

Dwg.0/0

AN 1995-338866 [44] WPIDS

DNC C1995-149288

TI Increasing digestibility of proteins and aminoacid(s) in animal feed - with xylanase, partic. added to cereal based feeds, improves nutritional value and allows redn. in amt. of supplements.

DC D13 D16

IN BEDFORD, M R; MORGAN, A J

PA (FINN-N) FINNFEEDS INT LTD

CYC 3

PI GB 2287867 A 19951004 (199544)* 34p

AU 9516147 A 19951012 (199548)

CA 2145961 A 19951001 (199605)

AU 683720 B 19971120 (199804)

ADT GB 2287867 A GB 1995-6173 19950327; AU 9516147 A AU 1995-16147 19950329; CA 2145961 A CA 1995-2145961 19950330; AU 683720 B AU 1995-16147 19950329

FDT AU 683720 B Previous Publ. AU 9516147

PRAI GB 1994-6317 19940330

L10 ANSWER 26 OF 32 NTIS COPYRIGHT 2000 NTIS

AB Canola seed contains mucilage, a starch-like compound which is poorly digested by monogastric animals. The development of a low-mucilage (low-M)

strain of canola (derived from Candle) allowed the comparison of the effect of the canola meal (CM) from this strain with that of Candle, a regular cultivar, on the gains, feed efficiency and nutrient digestibility

of growing pigs. The effect of the carbohydrate-digesting enzyme beta-glucanase was also tested to see if it would improve feed utilization

and mucilage breakdown in the digestive system. Twelve barley:Wheat (2:1) diets were formulated to contain 0%, 6% and 12% each of CM with and without the addition of the enzyme source. Seventy-two crossbred barrows, mainly the progeny of Landrace-Yorkshire crossbred sows and Lacombe boars,

were randomly allotted to test diets and fed according to a controlled feeding schedule through the liveweight range of 23-57 kg. Pig weights and

feed intakes were measured weekly.

AN 1991(15):1484 NTIS Order Number: MIC-91-01749/XAD

TI Nutritional evaluation of low-mucilage canola meal: Technical/final report.

CS Agriculture Development Fund (Sask.). Regina (Canada).

NR MIC-91-01749/XAD

18 p. NTIS Prices: PC E07/MF E01

PD 1990

LA English CY Canada

OS GRA&I9115

L10 ANSWER 27 OF 32 USPATFULL

AB A method for the saccharification of a cellulosic material comprises the

steps of culturing a microorganism of *Acremonium cellulolyticus* in a medium containing carbon sources and nitrogen sources, collecting a cellulolytic enzyme from the resultant culture broth, and causing the cellulolytic enzyme to act on the cellulosic material.

AN 90:71684 USPATFULL

TI Method for production of cellulolytic enzymes and method for saccharification of cellulosic materials therewith

IN Yamanobe, Takanori, Ibaraki, Japan
Mitsubishi, Yasuichi, Ibaraki, Japan
Takasaki, Yoshiyuki, Chiba, Japan
PA Agency of Industrial Science & Technology, Tokyo, Japan (non-U.S.
government)
Ministry of International Trade & Industry, Tokyo, Japan (non-U.S.
government)
PI US 4956291 19900911
AI US 1987-11043 19870205 (7)
DCD 20021231
RLI Continuation of Ser. No. US 1985-720416, filed on 5 Apr 1985, now
patented, Pat. No. US 4742005
PRAI JP 1985-581 19850107
JP 1985-3490 19850111
DT Utility
EXNAM Primary Examiner: Tarca, John E.
LREP Oblon, Spivak, McClelland, Maier & Neustadt
CLMN Number of Claims: 1
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 646
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 28 OF 32 USPATFULL

AB A high pressure conditioning system apparatus and control network. A direct fired steam generator supplies a mixture of super-heated steam and oxygen-deficient non-condensable gases to a pressurized conditioner constructed for heating, moisturizing, and conditioning matter including cereals, grains, beans, full fat soybean, barley, and seeds for a selected period of time. The high pressure conditioner is adapted for homogeneous interaction of the direct fired steam, non-condensable gases and the matter to be conditioned. A pressurized resting chamber is used statically steam the conditioned matter. A myriad of chemical changes are advantageously induced by the utilization of high pressures, controlled time, temperature, direct fired steam, moisture content, and the homogeneous interaction thereof. The desirable chemical changes accomplished by the high pressure conditioner include partial denaturation of protein, eliminating or reduction of harmful enzymes and microorganisms, and insolubilizing certain polysaccharides encapsulating the starch in the grains. Such desirable chemical changes lead to better nutritive value of the feed produced. A dryer may also be disposed in flow communication with the system for drying and cooling and rendering stable the conditioned matter for subsequent handling.

AN 90:14303 USPATFULL
TI High pressure conditioning system
IN White, Richard L., Dallas, TX, United States
Diven, Richard H., Dallas, TX, United States
Bleke, James H., Wolcottville, IN, United States
PA VE Holding Corp., Arlington, TX, United States (U.S. corporation)
PI US 4903414 19900227
AI US 1988-224433 19880725 (7)
DT Utility
EXNAM Primary Examiner: Bennet, Henry A.
LREP Johnson & Gibbs
CLMN Number of Claims: 36
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 939

L10 ANSWER 29 OF 32 USPATFULL

AB Breakfast cereals are sweetened by treating cereal grains or at least one cereal grain fraction such as bran, with enzymes comprising

glucoamylase and glucose isomerase to produce fructose while retaining cereal particle discreteness or integrity. Enzymatic treatment with alpha-amylase may be initiated prior to, during, or after cooking. The enzymatically treated, cooked cereal grains are formed into breakfast cereal shapes and the enzymes are inactivated to provide a shelf-stable cereal product. The cereal products exhibit a sweet, pleasing complex-honey-like taste and aroma. Producing fructose provides a greater level of sweetness for a given amount of starch conversion into low molecular weight reducing sugars such as mono- and di-saccharides. In achieving a given level of sweetness, more starch or high molecular weight dextrans may be retained for their matrix forming ability or for improved machineability of the enzymatically treated cereal grains into breakfast cereal shapes. The naturally sweetened cereal products of the present invention may be in shredded, flaked, ground, or extruded form.

AN 89:67285 USPATFULL
TI Method for making cereal products naturally sweetened with fructose
IN Maselli, John A., Winston-Salem, NC, United States
Neidleman, Saul L., Oakland, CA, United States
Antrim, Richard L., Sparta, NJ, United States
Johnson, Richard A., Clinton, IA, United States
PA Nabisco/Cetus Food Biotechnology Research Partnership, Emeryville, CA,
United States (U.S. corporation)
PI US 4857339 19890815
AI US 1987-101561 19870928 (7)
DT Utility
EXNAM Primary Examiner: Czaja, Donald E.; Assistant Examiner: Paden, Carolyn
LREP Kornutik, Richard; Halluin, Albert P.
CLMN Number of Claims: 44
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1717
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 30 OF 32 USPATFULL
AB A method for the saccharification of a cellulosic material comprises
the steps of culturing a microorganism of *Acremonium cellulolyticus* in a
medium containing carbon sources and nitrogen sources, collecting a
cellulolytic enzyme from the resultant culture broth, and causing the
cellulolytic enzyme to act on the cellulosic material.

AN 88:27709 USPATFULL
TI Method for production of cellulolytic enzymes and method for
saccharification of cellulosic materials therewith
IN Yamanobe, Takashi, Ibaraki, Japan
Mitsubishi, Yasushi, Ibaraki, Japan
Takasaki, Yoshiyuki, Matsudo, Japan
PA Agency of Industrial Science & Technology, Ministry of International
Trade & Industry, Tokyo, Japan (non-U.S. corporation)
PI US 4742005 19880503
AI US 1985-720416 19850405 (6)
PRAI JP 1985-581 19850107
JP 1985-3490 19850111
DT Utility
EXNAM Primary Examiner: Tarcza, John E.
LREP Oblon, Fisher, Spivak, McClelland & Maier
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 658
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 31 OF 32 USPATFULL
AB A process for producing a stevioside derivative, which comprises
reacting stevioside with a .beta.-1,3- or .beta.-1,4-glycosyl sugar
compound in aqueous solution or aqueous suspension in the presence of a
microorganism or enzyme having .beta.-1,3- or .beta.1,4-glycosyl

transferring vity thereby to form .beta.-1 or
.beta.-1,4-glycosyl stevioside.
AN 86:29737 USPATFULL
TI Process for production of .beta.-glycosyl stevioside derivatives
IN Nishihashi, Hideji, Urawa, Japan
Matsubayashi, Tadao, Chiba, Japan
Katabami, Tadashi, Urawa, Japan
Matsuda, Ken-ichi, Tokyo, Japan
PA Dainippon Ink and Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)
Dic Fine Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)
PI US 4590160 19860520
AI US 1983-469947 19830225 (6)
PRAI JP 1982-31479 19820227
DT Utility
EXNAM Primary Examiner: Wiseman, Thomas G.; Assistant Examiner: Weimar,
Elizabeth C.
LREP Sherman & Shalloway
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1623
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 32 OF 32 USPATFULL
AB A chitin-protein complex is prepared from chitin-containing biological waste material such as crustacean shells. The complex is different from both chitin and chitosan, and has useful nematostatic and nematocidal activity for agricultural and horticultural applications by admixing nematocidally effective amounts with a plant growth medium. The complex also provides a source of nitrogen in slow-release form, making it particularly suitable for combination with fertilizers, soil conditioners, etc.
AN 85:48965 USPATFULL
TI Nematocidally active chitin-protein complex
IN McCandliss, Russell J., Germantown, MD, United States
Eastwood, Barbara J., Round Hill, VA, United States
Milch, Robert A., Baltimore, MD, United States
PA IGI Biotechnology, Inc., Columbia, MD, United States (U.S. corporation)
PI US 4536207 19850820
AI US 1983-517312 19830726 (6)
DT Utility
EXNAM Primary Examiner: Schain, Howard E.
LREP Haight & Associates
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 11 Drawing Figure(s); 13 Drawing Page(s)
LN.CNT 919
CAS INDEXING IS AVAILABLE FOR THIS PATENT.